Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1.   (cancelled)

2.   (cancelled)

3.   (cancelled)

4.   (cancelled)

5.   (cancelled)

6.   (previously presented)   A system for providing gateway services in a voice communication system over a packet-switched network, comprising:

an application layer that includes application services;

a platform for sessions and modules, wherein said application layer includes a gateway server and a common service; and

a routing manager that manages usage on the gateway server, wherein the routing manager comprises:

maintaining means for maintaining a list of routes;

managing means for managing connections to the routing servers on the network;

exporting means for exporting local routes to routing servers;

importing means for importing disseminated routes from routing servers;

receiving means for receiving a request for a route;

obtaining means for obtaining static global and dynamic routes from routing servers;

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caching means for caching said static global and said dynamic routes for future use;

finding means for finding matching routes for a specific telephone number; and

prioritizing means for prioritizing matching routes.

7.	(original) A system of claim 6, wherein said application layer also includes an autoforward service.

8.	(original) A system of claim 7, wherein said platform includes a session manager that creates and manages sessions.

9.	(original) A system of claim 8, wherein said session manager includes a rule engine.

10.	(original) A system of claim 8, wherein said session corresponds to a voice call.

11.	(previously presented) A system of claim 8, further comprising:

a line group manager that coordinates communication between a telephone line side and a packet-switched network side of the gateway server;

a database access manager that monitors access to the database server;

a media manager that manages voice prompt usage; and

a call rating manager that determines the costs to apply to each call.

12.	(previously presented) A system of claim 8, further comprising:

a parsing subsystem coupled to said routing manager.

13.	(original) A system of claim 12, wherein said parsing subsystem comprises:

maintaining means for maintaining a parsing table;

receiving means for receiving call information;

determining means for determining a country code;

retrieving means for retrieving pattern data from said parsing table;

determining means for determining an area code;

determining means for determining a local number;

determining means for determining an extension; and

outputting means for outputting a call address.

14.   (previously presented) A system of claim 8, further comprising:

a dynamic cache subsystem coupled to said routing manager.

15.   (original) A system of claim 12, wherein said parsing subsystem matches routes
by wildcarding.

16.   (original) A system of claim 11, further comprising:

a conversion module.

17.   (original) A system of claim 11, further comprising:

a hardware device manager module that coordinates telephony and
network components.

18.   (cancelled)

19.   (previously presented) A system of claim 8, further comprising:

connecting means for connecting to routing servers; and

managing means for managing connections to routing servers.

20.   (cancelled)

21.   (cancelled)

22.   (cancelled)

23.   (cancelled)

24.   (cancelled)

25.   (previously presented) A system for routing server, comprising:

    first receiving means for receiving exported local routes from gateway servers, wherein said first receiving means for receiving exported local routes includes:

      requesting means for requesting exportable local routes from gateway servers;

      receiving means for receiving said exportable local routes from gateway servers;

      transforming means for transforming said exportable local routed into dynamic routes on the routing server;

      storing means for storing said dynamic routes; and

      updating means for updating said dynamic routes.;

    transforming means for transforming exported local routes into dynamic routes;

    first storing means for storing said dynamic routes;

    second storing means for storing static global and disseminated routes;

    first providing means for providing said disseminated routes to gateway servers;

    second receiving means for receiving requests for matching routes from gateway servers;

    determining means for determining a matching route; and

    second providing means for providing said matching route.

26.   (cancelled)

27.   (original) A system of claim 25, wherein said means for transforming an exported local route comprises:

    receiving means for receiving exported local routes;

first checking means for checking a route address entry;

second checking means for checking route timing information;

third checking means for checking a route access entry;

fourth checking means for checking route ordering information;

first adding means for adding a route identity;

second adding means for adding of exporting gateway server; and

third adding means for adding a temporal stamp to said exported local route.

28.   (original) A system of claim 25, wherein said means for disseminated routing comprise:

first providing means for providing routes to a routing server;

querying means for querying the routing server for said routes configured for dissemination; and

second providing means for providing matching routes to a gateway server.

29.   (original) A system of claim 25, wherein said means for dynamic routing, comprise:

connecting means for connecting to a routing server;

querying means for querying a routing server;

providing means for providing matching routes to a gateway server; and

matching means for storing said matching routes on a gateway server.

30.   (original) A system of claim 25, wherein said means for static global routing, comprise:

connecting means for connecting to a routing server;

querying means for querying a routing server; and

providing means for providing matching routes to a gateway server.

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31.   (cancelled)

32.   (cancelled)

33.   (cancelled)

34.   (cancelled)

35.   (cancelled)

36.   (cancelled)

37.   (cancelled)

38.   (cancelled)

39.   (cancelled)

40.   (currently amended) A method of providing gateway services in a voice communication system over a packet-switched network, comprising the steps of:

instantiating application services within an application layer;

providing a software object platform for sessions and modules, wherein said application layer includes a gateway service and a common service; and

managing route usage on the gateway server with a routing manager, wherein managing route usage includes:

maintaining ~~means for maintaining~~ a list of routes;

managing connections to the routing servers on the network;

exporting local routes to routing servers;

importing disseminated routes from routing servers;

receiving a request for a route;

obtaining static global and dynamic routes from routing servers;

caching said static global and said dynamic routes for future use;

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finding matching routes for a specific telephone number; and

prioritizing matching routes.

41.   (original) A method of claim 40, wherein said application layer also includes an

autoforward service.

42.   (original) A method of claim 41, wherein said platform includes a session

manager that creates and manages sessions.

43.   (original) A method of claim 42, wherein said session manager includes a rule

engine.

44.   (currently amended) A method of claim 42, wherein said a session corresponds to

a voice call.

45.   (cancelled)

46.   (currently amended) A method of claim 40, further comprising the step[[s]] of:

maintaining a parsing subsystem coupled to said routing manager.

47.   (currently amended) A method of claim [[46]] 40, further comprising wherein

said parsing subsystem comprises the steps of:

maintaining a parsing table;

receiving call information;

determining a country code;

retrieving pattern data from said parsing table;

determining an area code;

determining a local number;

determining an extension; and

outputting a call address.

48.   (currently amended) A method of claim 40, further comprising the step[[s]] of:
        maintaining a dynamic cache subsystem coupled to said routing manager.

49.   (original) A method of claim 46, wherein said parsing subsystem matches routes
by wildcarding.

50.   (currently amended) A method of claim 40, further comprising the step[[s]] of:
        connecting a conversion module.

51.   (currently amended) A method of claim 40, further comprising the step[[s]] of:
        coordinating telephony and network components with a hardware device
manager module.

52.   (cancelled)

53.   (previously presented) A method of claim 40, further comprising the steps of:
        connecting to routing servers; and
        managing connections to routing servers.

54.   (cancelled)

55.   (cancelled)

56.   (cancelled)

57.   (cancelled)

58.   (cancelled)

59.   (cancelled)

60.   (cancelled)

61.   (cancelled)

62.   (cancelled)

63.   (cancelled)

64.   (cancelled)

65.   (cancelled)

66.   (cancelled)

67.   (cancelled)

68.   (cancelled)

69.   (cancelled)

70.   (cancelled)

71.   (cancelled)

72.   (cancelled)

73.   (cancelled)

74.   (currently amended) A computer program product ~~comprising a tangible computer readable medium having computer program logic recorded thereon~~ for providing gateway services in a voice communication system over a packet-switched network, <u>said computer program product having computer program code embodied in computer-readable medium, said computer program code</u> comprising:

a <u>first program code which causes</u> ~~means for enabling~~ a computer to instantiate application services within an application layer;

a second program code which causes ~~means for enabling~~ a computer to provide a software object platform for sessions and modules, wherein said application layer includes a gateway service and a common service; and

a third program code which causes ~~means for enabling~~ a computer to manage route usage on [[the]] a gateway server with a routing manager, ~~wherein the routing manager includes;~~ including to:

~~means for enabling a computer to maintain means for~~ maintain[[ing]] a list of routes;

~~means for enabling a computer to manage means for managing~~ manage connections to [[the]] routing servers on the network;

~~means for enabling a computer to export means for exporting~~ export local routes to routing servers;

~~means for enabling a computer to import means for importing~~ import disseminated routes from routing servers;

~~means for enabling a computer to receive means for receiving~~ receive a request for a route;

~~means for enabling a computer to obtain means for obtaining~~ obtain static global and dynamic routes from routing servers;

~~means for enabling a computer to cache means for caching~~ cache said static global and said dynamic routes for future use;

~~means for enabling a computer to find means for finding~~ find matching routes for a specific telephone number; and

~~means for enabling a computer to prioritize means for prioritizing~~ prioritize matching routes.

75.   (cancelled)

76.   (cancelled)

77.   (cancelled)

78.   (cancelled)

79.   (cancelled)

80.   (cancelled)

81.   (cancelled)

82.   (cancelled)

83.   (cancelled)

84.   (cancelled)

85.   (cancelled)

86.   (cancelled)

87.   (cancelled)

88.   (cancelled)

89.   (cancelled)

90.   (currently amended) A computer program product ~~comprising a tangible computer readable medium having computer program logic recorded thereon~~ for providing routing services, said computer program product having computer program code embodied in computer-readable medium, said computer program code comprising:

        a first program code which causes ~~means for enabling~~ a computer to serve routes with a routing application layer;

        a second program code which causes ~~means for enabling~~ a computer to provide a common object platform for memory and modules, wherein said routing application layer includes a route translation service;

a third program code which causes ~~means for enabling~~ a computer to request exportable local routes from gateway servers;

a fourth program code which causes ~~means for enabling~~ a computer to receive said exportable local routes from gateway servers;

a fifth program code which causes ~~means for enabling~~ a computer to transform said exportable local routed into dynamic routes ~~on the routing server~~;

a sixth program code which causes ~~means for enabling~~ a computer to store said dynamic routes; and

a seventh program code which causes ~~means for enabling~~ a computer to update said dynamic routes.

91.   (cancelled)

92.   (cancelled)

93.   (cancelled)

94.   (cancelled)

95.   (cancelled)

96.   (cancelled)

97.   (cancelled)

98.   (cancelled)

99.   (cancelled)

100.   (cancelled)

101.   (cancelled)

102.   (cancelled)

103.   (cancelled)

104.   (cancelled)

105.   (cancelled)